

Product datasheet for **RG227524**

SLC30A7 (NM_001144884) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC30A7 (NM_001144884) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SLC30A7
Synonyms: ZnT-7; ZNT7; ZnTL2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227524 representing NM_001144884
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGTTGCCCTGTCCATCAAAGACGATGAATACAAACCACCAAGTTCAATTTGTTGCGCAAGATCTCGG
 GCTGGTTTAGGTCTATACTGTCCGACAAGACTCCCGGAACCTGTTTTCTTCTGTGCCTGAACCTCTC
 TTTGCTTTTGTGGAAGTACTCTACGGCATCTGGAGCACTGCTTAGGCTTGATTTCCGACTCTTTTCAC
 ATGTTTTTCGATAGCACTGCCATTTGGCTGGACTGCCAGCTTCTGTTATTTCAAATGGAGAGATAATG
 ATGCTTTCTCCTATGGGTATGTTAGAGCGGAAGTTCTGGCTGGCTTTGTCAATGGCTATTTTTGATCCT
 CACTGCTTTTTTATTTTCTCAGAAGGAGTTGAGAGAGCATTAGCCCCTCCAGATGTCCACCATGAGAGA
 CTGCTTCTGTTTCCATTCTTGGTTTTGTGTAACCTAATAGGAATATTTGTTTTCAAACATGGAGGTC
 ATGGACATTCTCATGGCTCTGGCCACGGACACAGTCATTCCCTCTTAATGGTGTCTAGATCAGGCACA
 TGGCCATGTGCATCATTGCCATAGCCATGAAGTAAAACATGGTGTGCACATAGCCATGATCATGCTCAT
 GGACATGGACACTTTTATTCTCATGATGGCCGCTCCTAAAAGAAAACAACAGGACCCAGCAGACAGATTT
 TACAAGGTGATTTTTACATATCCTAGCAGATACACTTGAAGTATTGGTGAATTGCTTCTGCCATCAT
 GATGCAAAATTTTGGTCTGATGATAGCAGATCCTATCTGTTCAATTCTTATAGCCATTCTATAGTTGTA
 AGTGTATTCTCTTTAAGAGAATCTGTTGGAATATTAATGCAGAGAACTCCTCCCTATTAGAAAATA
 GTCTGCCTCAGTGCTATCAGAGGGTACAGCAGTTGCAAGGAGTTTACAGTTTACAGGAACAGCACTTCTG
 GACTTTATGTTCTGACGTTTATGTTGGGACCTTAAAATTAATAGTAGCACCTGATGCTGATGCTAGGTGG
 ATTTTAAGCCAAACACATAATATTTTTACTCAGGCTGGAGTGAGACAGCTCTACGTACAGATTGACTTTG
 CAGCCATG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG227524 representing NM_001144884
Red=Cloning site Green=Tags(s)

MLPLSIKDDEYKPPKFNLFKISGWFRSILSDKTSRNLFFFLCLNLSFAFVELLYGIWSNCLGLISDSFH
MFFDSTAILAGLAASVISKWRDNDAFSYGYVRAEVLAFVNLFLIFTAFFIFSEGVERALAPPDVHHER
LLLVSILGFVVNLIGIFVFKHGGHSHGSHGSHSLFNGALDQAHGHVDHCHSHEVKHGAHSHDHAH
GHGHFHSHDGPSLKETTGPSRQILQGVFLHILADTLGSIQVIASAIMMQNFGLMIADPICILIAILIVV
SVIPLLRESVIGILMQRTPPLENSLPQCYQRVQQLQGVYSLQEQHFWTLCSDVYVGTCLKLIVAPDADARW
ILSQTHNIFTQAGVRQLYVQIDFAAM

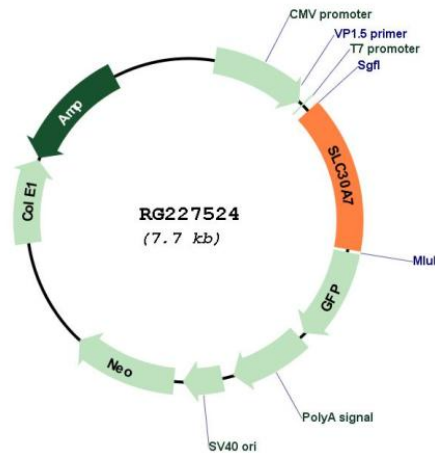
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001144884

ORF Size:	1128 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001144884.2
RefSeq Size:	7918 bp
RefSeq ORF:	1131 bp
Locus ID:	148867
UniProt ID:	Q8NEW0
Cytogenetics:	1p21.2
Protein Families:	Transmembrane
Gene Summary:	Zinc functions as a cofactor for numerous enzymes, nuclear factors, and hormones and as an intra- and intercellular signal ion. Members of the zinc transporter (ZNT)/SLC30 subfamily of the cation diffusion facilitator family, such as SLC30A7, permit cellular efflux of zinc (Seve et al., 2004 [PubMed 15154973]).[supplied by OMIM, Mar 2008]